

PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES THE INSTALLATION OF LED COUNTDOWN PEDESTRIAN SIGNAL HEADS AND ACCESSIBLE PUSHBUTTON SYSTEMS TO CROSS THE WEST LEG OF THE INTERSECTION AT MD 150 AND KINGSTON ROAD IN BALTIMORE COUNTY.

THE EXISTING PEDESTRIAN EQUIPMENT AND CROSSWALK TO CROSS THE EAST LEG OF THE INTERSECTION SHALL BE REMOVED. THE EXISTING SCHOOL CROSSING SIGNS WILL BE RELOCATED.

MD 150 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULLY ACTUATED MODE, WITH THE MD 150 APPROACHES OPERATING CONCURRENTLY. THERE ARE EXCLUSIVE PERMISSIVE LEFT TURNS FOR THE EASTBOUND AND WESTBOUND APPROACHES OF MD 150. THE APPROACHES OF KINGSTON ROAD/OLD EASTERN AVENUE OPERATE CONCURRENTLY. THERE IS AN OPTICOM EMERGENCY PRE-EMPTION FOR THE WESTBOUND APPROACH OF MD 150.

COUNTDOWN PEDESTRIAN SIGNAL HEADS AND ACCESSIBLE PUSHBUTTON SYSTEMS SHALL BE PROVIDED TO CROSS THE WEST LEG OF MD 150.

III. APS WILL FUNCTION AS FOLLOWS:

WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR EXTENDED TIME.

THE MESSAGE WILL BE:  
WAIT: "WAIT TO CROSS EASTERN BLVD. AT KINGSTON RD."  
WALK: "RAPID TICK"

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE STATE HIGHWAY ADMINISTRATION AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9571	2 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
	2 EA	R10-3(1) "PUSH BUTTON TO CROSS EASTERN BLVD" (9"x 15")

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MS. ERIN KUHN  
ASSISTANT DISTRICT ENGINEER-TRAFFIC  
PHONE: 410-321-2781/2885

MR. DON SCHAEFER  
ASSISTANT DISTRICT ENGINEER-CONSTRUCTION  
PHONE: 410-321-2821

MR. ANDRE FUTRELL  
ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
PHONE: 410-321-2761

MR. MICHAEL PASQUARIELLO  
DISTRICT UTILITY ENGINEER  
PHONE: 410-321-2841

THE CONTACT PERSONS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATION SECTION  
PHONE: 410-787-7652

MS. DARLENE EIDE  
SIGNAL WAREHOUSE  
PHONE: 410-787-7668

MR. DENNIS DODA  
TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION  
PHONE: 410-787-5858

MR. GREG CARSKI  
CHIEF, DESIGN SECTION  
BALTIMORE COUNTY TRAFFIC ENGINEERING  
PHONE: 410-887-3554

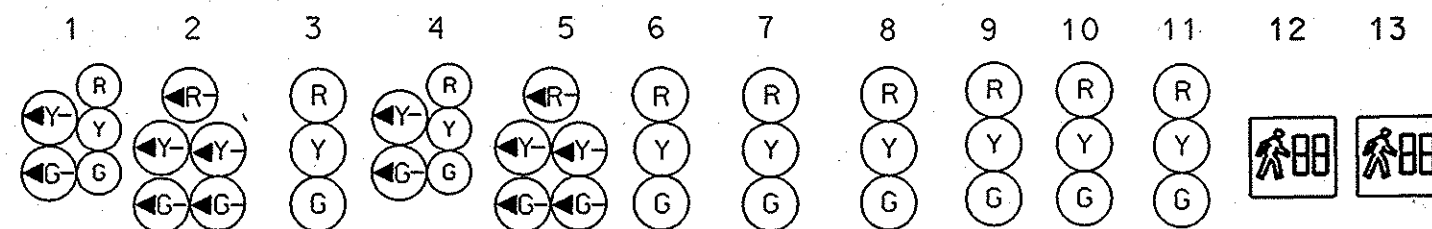
EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

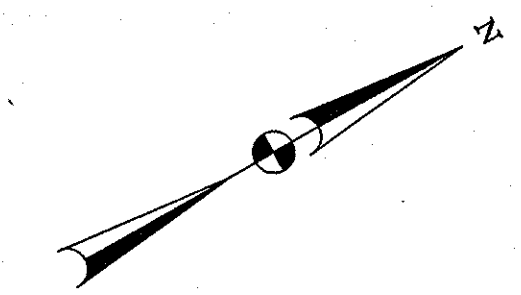
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	1 CY	TEST PIT EXCAVATION
5003	700 LF	12" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING
5004	25 LF	24" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMNET MARKING
5005	720 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5008	1 EA	HEAT APPLIED WHITE PERMANENT PERFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
6001	170 LF	STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12" GUTTER PAN / 8" DEPTH
6002	570 SF	4" CONCRETE SIDEWALK
8003	1 EA	2 WIRE CENTRAL CONTROL UNIT
8010	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8011	1 EA	BREAKAWAY PEDESTAL POLE - ANY SIZE
8014	2 EA	LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD
8017	1 EA	REMOVE AND DISPOSE OF EQUIPMENT PER ASSIGNMENT
8026	28 LF	UP TO 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	60 SF	DETECTABLE WARNING SURFACE
8028	51 SF	RELOCATE EXISTING SIGNS
8030	1 CY	CONCRETE FOR SIGNAL FOUNDATION
8032	54 LF	WOOD SIGN SUPPORTS 4" x 6"
8033	480 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8044	1 EA	ELECTRICAL HANDHOLE
8046	2 SF	INSTALL OVERHEAD SIGN
8052	1 EA	GROUND ROD (3/4" DIA. x 10' LENGTH)
8058	460 LF	ELECTRICAL CABLE 2- CONDUCTOR NO.14 AWG
8060	470 LF	ELECTRICAL CABLE 5- CONDUCTOR NO.14 AWG

C. ALL MATERIAL TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

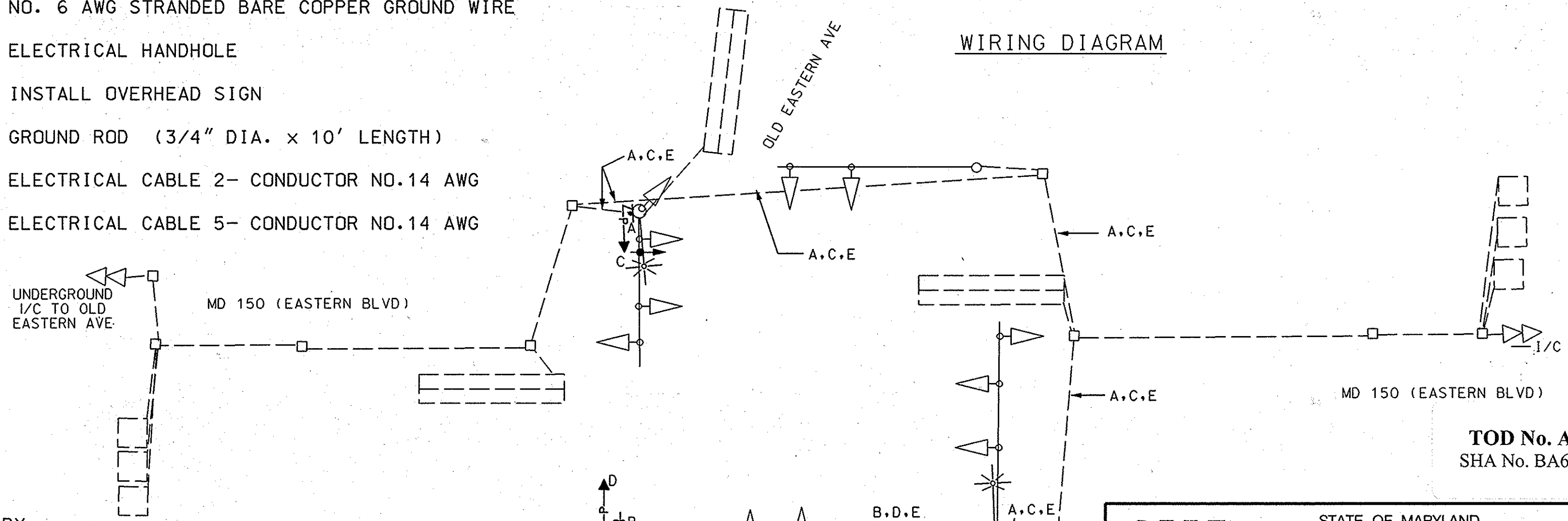
PHASE CHART



PHASE 1 & 5	← R	← G	R	← R	← G	R	R	R	R	R	R	DW	DW
1 CHANGE	CHANGE TO PHASE 1 & 6 OR PHASE 2 & 5												
PHASE 1 & 6	← Y	← G	R	R	R	G	R	R	R	R	R	DW	DW
1 CHANGE	← Y	← Y	R	R	R	G	R	R	R	R	R	DW	DW
PHASE 2 & 5	R	R	G	← G	← R	R	R	R	R	R	R	DW	DW
5 CHANGE	← Y	← Y	G	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW
ALT PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	WK	WK
COUNTDOWN PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	FL/DW	FL/DW
ALT 4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW
FIRE HOUSE	R	R	R	← G	← G	G	R	R	R	R	R	DW	DW
PRE-EMPTION	R	R	R	← Y	← Y	Y	R	R	R	R	R	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK



WIRING DIAGRAM



WIRING KEY

- A.B - 2 CONDUCTOR NO.14 AWG ELECTRICAL CABLE
- C.D - 5 CONDUCTOR NO.14 AWG ELECTRICAL CABLE
- E - NO.6 AWG STRANDED BARE COPPER GROUND WIRE
- EC - EXISTING ELECTRICAL CABLES
- ES - EXISTING UNDERGROUND SERVICE FEED
- ◆ - GROUND ROD (3/4" DIA. x 10' LENGTH)

**CENTURY**  
ENGINEERING  
CONSULTING ENGINEERS - PLANNERS  
10710 GILROY ROAD  
HUNT VALLEY, MD 21031

REVISION 'D' 25003.92

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 150 (EASTERN BOULEVARD) AND KINGSTON ROAD  
MIDDLE RIVER, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE	DATE 6/02/08	CONTRACT NO. AT9365185
DESIGNED BY EMM	COUNTY BALTIMORE	
DRAWN BY EMM	LOGMILE 03015005.65	
CHECKED BY	TIMS NO. I 942	
F.A.P. NO.	TOD NO.	
TS NO. 1880D-GI	DRAWING - OF	SHEET NO. 2 OF 2